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(WO/2003/011967) CURABLE COMPOSITION, CURED ARTICLE OBTAINED THEREFROM AND PHOTOCHROMIC OPTICAL MATERIAL AND PROCESS FOR PRODUCING THE SAME

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Title: CURABLE COMPOSITION, CURED ARTICLE OBTAINED THEREFROM, AND PHOTOCHROMIC OPTICAL MATERIAL AND PROCESS FOR PRODUCING THE SAME

Abstract: A useful curable composition giving a coating which has high adhesion to the substrate and to a hard coat layer and which has highly excellent photochromic properties, i.e., a high developed-color density, a high fading rate, and excellent durability. The composition comprises (1) 100 parts by weight of one or more radical-polymerizable monomers comprising a silyl monomer such as γ -methacryloyloxypropyltrimethoxysilane and/or an isocyanate monomer such as a 2-isocyanatoethoxymethacrylate, (2) 0.01 to 20 parts by weight of an amine compound, and (3) 0.01 to 2 parts by weight of a photochromic compound. Applying this composition as a coating material to a resinous substrate gives a photochromic optical material which has excellent adhesion between the photochromic coating layer and the substrate.

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(54) 発明の名称: 硬化性組成物、その硬化体並びにフォトクロミック光学材料とその製造法

(57) Abstract: A useful curable composition giving a coating which has high adhesion to the substrate and to a hard coat layer and which has highly excellent photochromic properties, i.e., a high developed-color density, a high fading rate, and excellent durability. The composition comprises (1) 100 parts by weight of one or more radical-polymerizable monomers comprising a silyl monomer such as γ -methacryloyloxypropyltrimethoxysilane and/or an isocyanate monomer such as a 2-isocyanatoethoxymethacrylate, (2) 0.01 to 20 parts by weight of an amine compound, and (3) 0.01 to 20 parts by weight of a photochromic compound. Applying this composition as a coating material to a resinous substrate gives a photochromic optical material which has excellent adhesion between the photochromic coating layer and the substrate.

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